



f a c t s h e e t

310 CMR 7.19: NO_x RACT

On March 9, 2018, the Massachusetts Department of Environmental Protection (MassDEP) amended 310 CMR 7.19: Reasonable Available Control Technology (RACT) for Sources of Nitrogen Oxides (NO_x), which generally applies to any facility that has the potential to emit ≥ 50 tons of NO_x per year. The amended regulations are available on MassDEP's website at <https://www.mass.gov/regulations/310-CMR-700-air-pollution-control>.

Applicability

The amendments adopt more stringent emission limits for large boilers [310 CMR 7.19(4)(b)], combustion turbines [310 CMR 7.19(7)(b)], and reciprocating internal combustion engines [310 CMR 7.19(8)(d)], and set a compliance date of March 9, 2020 (with the possibility of a 1-year extension). The amendments are expected to affect approximately 53 facilities.

Exemptions

The regulations exempt from the new emissions limits boilers and turbines with a 3-year average capacity factor below 10% and engines that operate less than 1,000 hours per 12-month period. If a facility is initially exempt but then operates beyond these thresholds, the facility would have 2 years to come into compliance.

Emissions Limits

The new NO_x emission limits for large boilers, turbines, and reciprocating internal combustion engines are shown in the Tables on page 2.

Alternative RACT

If a facility believes it is technically or economically infeasible to meet the new emissions limits, an Emission Control Plan can be submitted to MassDEP requesting an alternative source-specific emission limit.

Emission Control Plans

In addition to alternative emissions limit requests, an Emission Control Plan is required for adding or modifying air pollution controls, or for using Emissions Reduction Credits. Emission Control Plans must be submitted to MassDEP by September 5, 2018, or within 180 days of becoming subject to an emission standard if initially exempt.

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Commonwealth of
Massachusetts

Executive Office of
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Department of
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alternate format by calling our
ADA Coordinator at
(617) 574-6872.

Large Oil/Gas Boilers NO_x Emission Limits

	Oil lbs/MMBtu	Gas lbs/MMBtu
Tangential-fired Boilers ≥ 250 MMBtu/hr	0.15	0.08
Face-Fired Boilers ≥ 250 MMBtu/hr	0.15	0.15
Boilers < 250 MMBtu/hr and ≥ 100 MMBtu/hr	0.15	0.06

Combustion Turbines NO_x Emission Limits

	Oil ppm @15% O ₂	Gas ppm @15% O ₂
Simple cycle gas	50	40
Combined cycle gas	42	25

Engine NO_x Emission Limits

	g/bhp-hr
Gas-fired (rich burn and lean burn)	1.5
Oil- or Dual-fired (lean burn)	2.3

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This fact sheet is intended for general reference only and does not represent a full and complete statement of the technical or legal requirements associated with the regulation.